

# WELCOME

**Thank you for joining our  
neighborhood meeting.  
We will begin shortly!**



**Burlington Water Resources  
235 Penny Lane  
Burlington, VT 05401**



# CITY PROJECT TEAM



**Jenna Olson**  
Water Policy & Programs  
Manager



**Ashley Walenty**  
Water Resources  
Engineer



**James Sherrard**  
Stormwater Program  
Coordinator

# PROJECT OVERVIEW

- **Location is key – systems will manage stormwater flows to BTV's most active combined sewer overflow point (Pine Street CSO) – in the most challenging area of the city to build stormwater systems**
- 100% Grant funded
- 6 separate projects consisting of 15 treatment systems
- Tentative construction = Spring / Summer 2021

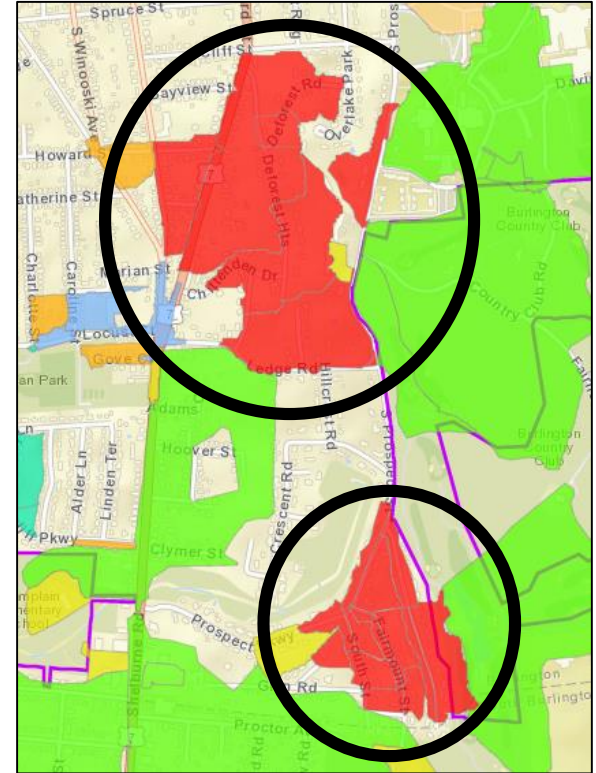




# BACKGROUND:

## Combined Sewer Overflows

- ~30% of Burlington is still on a combined sewer system
- During intense storms, the system is overloaded and discharges into specific area waters.
- Burlington is down to 5 CSO points from 12 a generation earlier – Pine Street is the most problematic.
- A best practice for urban municipalities is to install “retrofits” which serve to capture, slow and filter stormwater before it overloads our system or enters our Lake
- **These projects will manage stormwater runoff from 26% of the area that feeds the Pine Street CSO**
- **Prior GSI work by the City has shown a measurable reduction in CSO activity in the Old North End**



**Everything outside of the red areas is disconnected and would not benefit Pine CSO mitigation**

# BACKGROUND:

## Site Selection

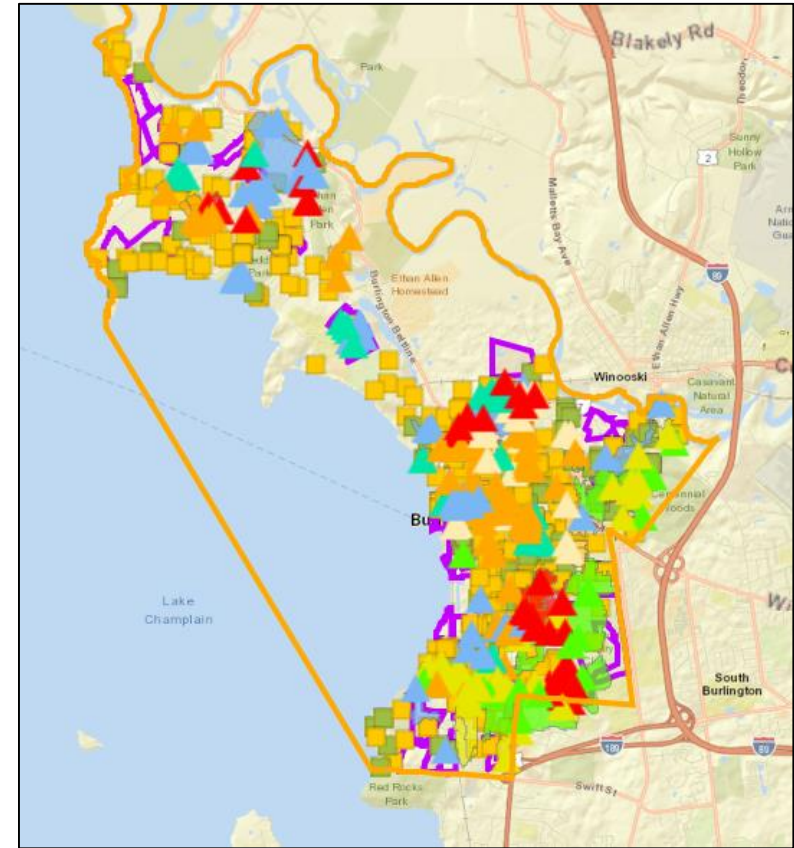


- **Drainage area (above Pine Street CSO)**
  - Soils (sand)
  - Depth to groundwater
  - Road widths (wide enough for emergency vehicle access)
- Minimal underground utility conflicts

# BACKGROUND:

## Site Selection

- **Integrated Planning:** First municipality statewide pursuing comprehensive, prioritized plan to meet increasing regulatory obligations and local water quality goals
- **Late 2017:** Stormwater identified locations across entire city suitable for GSI
- **Summer 2018:** Key challenges at wastewater treatment plants and continued CSO frequency at Pine Street
  - Passionate feedback from residents about reducing/eliminating wastewater/stormwater issues

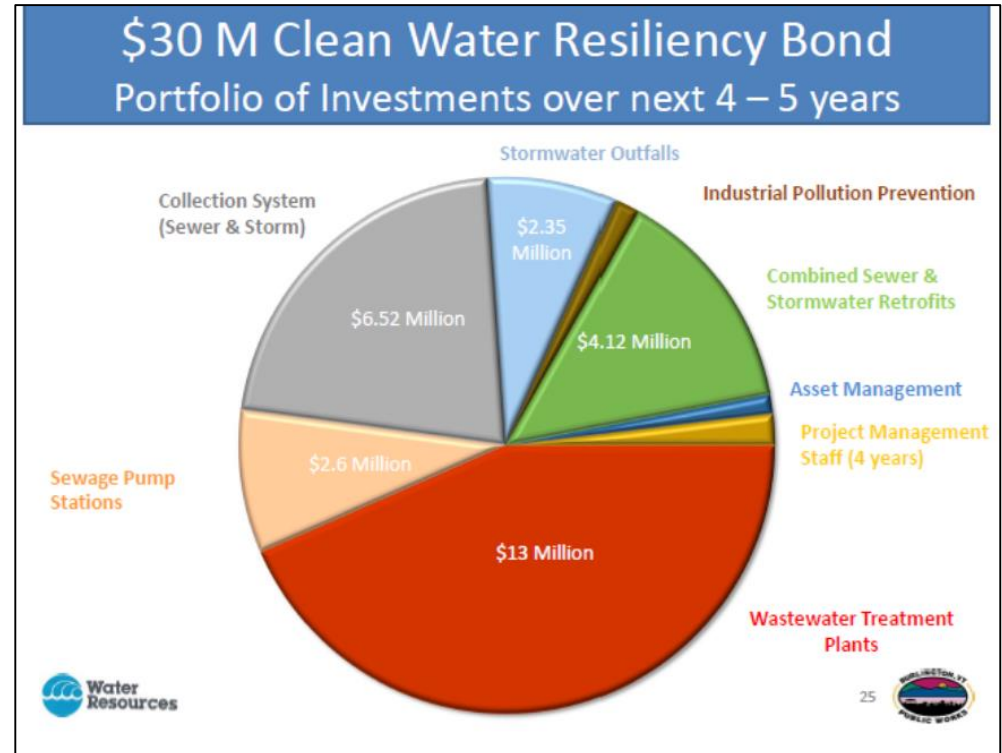


**GSI Opportunities Map**

# BACKGROUND:

## Clean Water Resiliency Plan

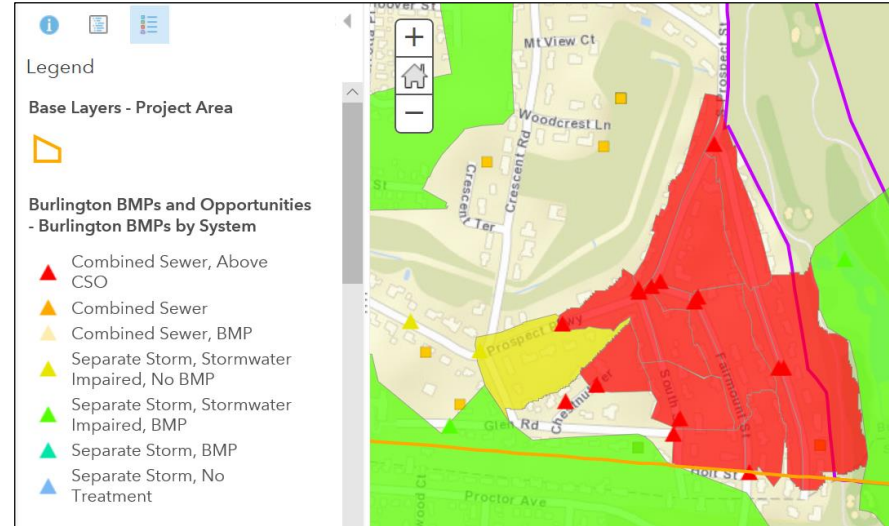
- Clean Water Resiliency Plan put forward and passed by voters in 2018.
- CWRP built on years of planning & analysis, but was expedited as a direct response to 2018 challenges
- Key area identified was stormwater retrofits, based on prior success at mitigating CSO activity



# BACKGROUND:

## The Grant

- First of its kind to address CSO activity in VT
- Statewide RFP released 10/16/2018 for \$1.25M with proposals due less than one month later
- Staff used Opportunities Map (prior slide) to identify areas of maximum benefit
- Burlington received \$1M of the \$1.25M, saving considerable ratepayer expense
- BOF/CC approved grant 6/24/2019
- **Performance measures:** 12 projects, manage 15 acres of runoff, complete everything by \*2021



**Everything outside of the red area is disconnected and would not benefit Pine CSO mitigation**

**\*Due to COVID-19 related delays, we are currently seeking an extension to 2022. This request is pending, and is not guaranteed.**



# MAINTENANCE

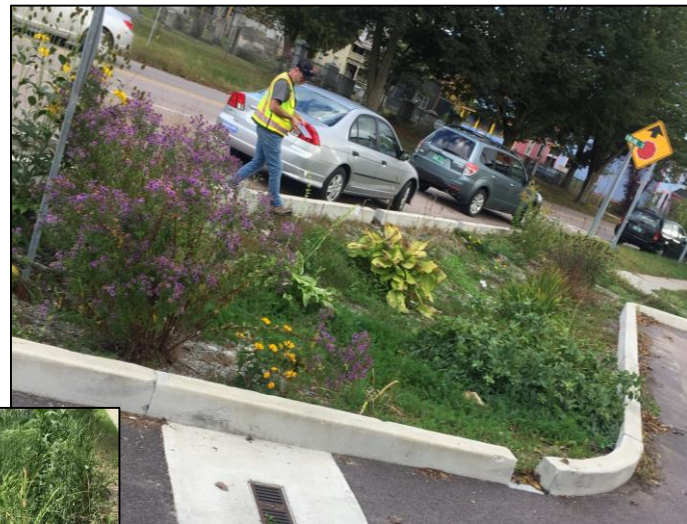
- Paragon started contract July 1, 2020
- They could not start sooner due to Governor's EO
- Current contract extends to June 30, 2022 – we will maintain this contract or execute a new one
- Contract was established following lessons learned with ONE systems
- Maintenance is essential for function & aesthetics
- We can offer a written maintenance plan for residents





**Grant Street  
July 2020**

**Mansfield Avenue  
July 2020**



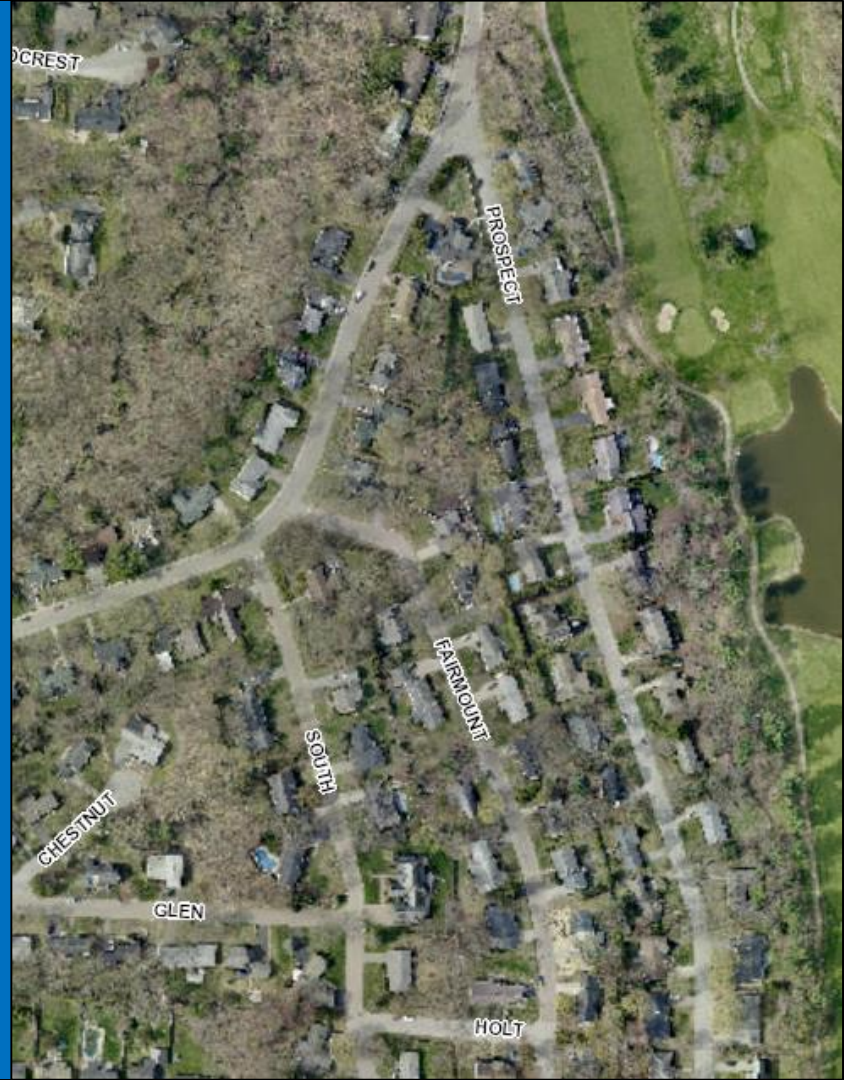
**Hyde Street  
2018**

# Frequently Asked Questions (FAQ)

- Are there more detailed maps of where parking will be removed?
- Can residents help select plants?
- Has Burlington Fire Department reviewed and approved the plans?
- Are these gardens a safety hazard for pedestrians or children?
- Will the gardens attract mosquitoes?
- Will construction require any blasting or high-intensity vibration?
- Will this lead to flooding in my basement?
- Will the City plows and street sweepers be able to navigate around these?
- Are these systems going to negatively impact my property value?

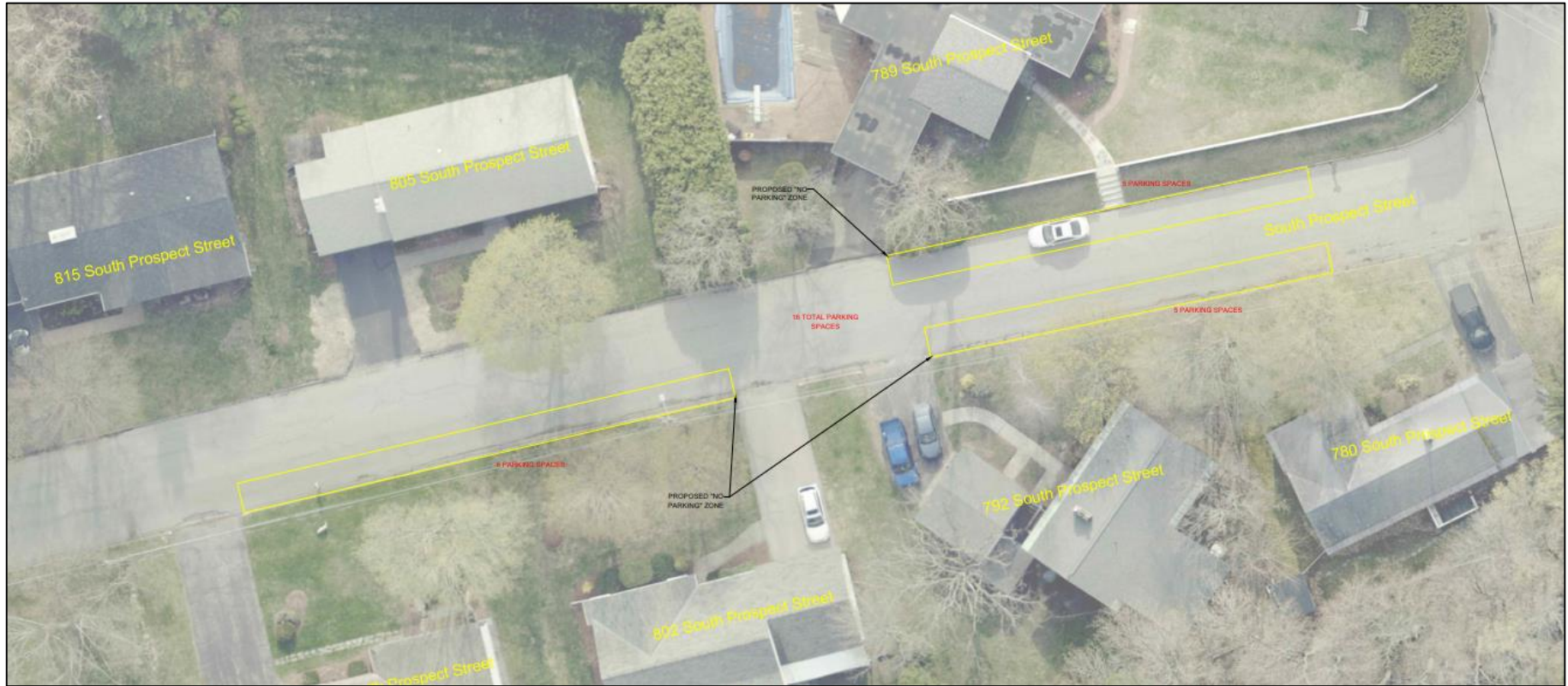


# PROPOSED PARKING REMOVAL





# SOUTH PROSPECT STREET



# SOUTH PROSPECT STREET

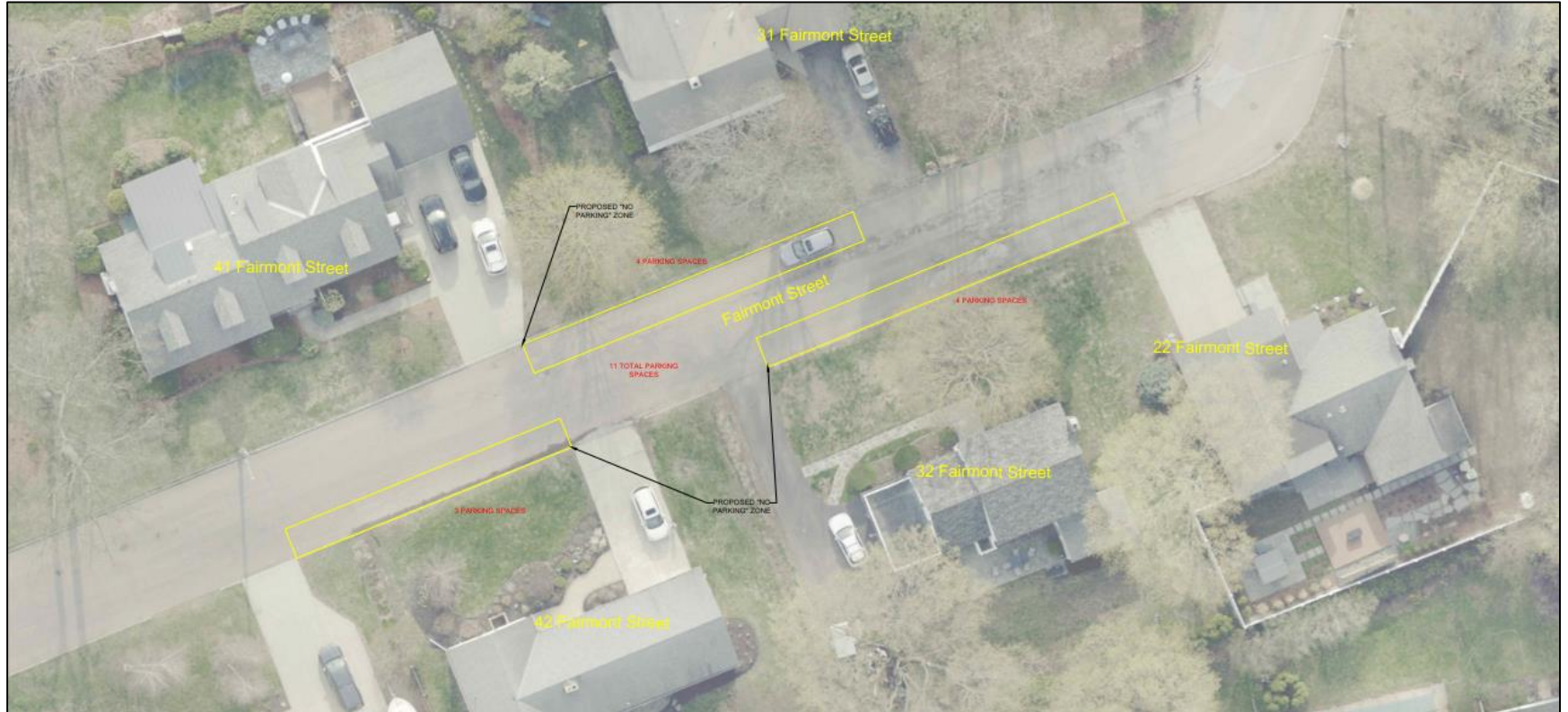




# PROSPECT PARKWAY & FAIRMOUNT STREET

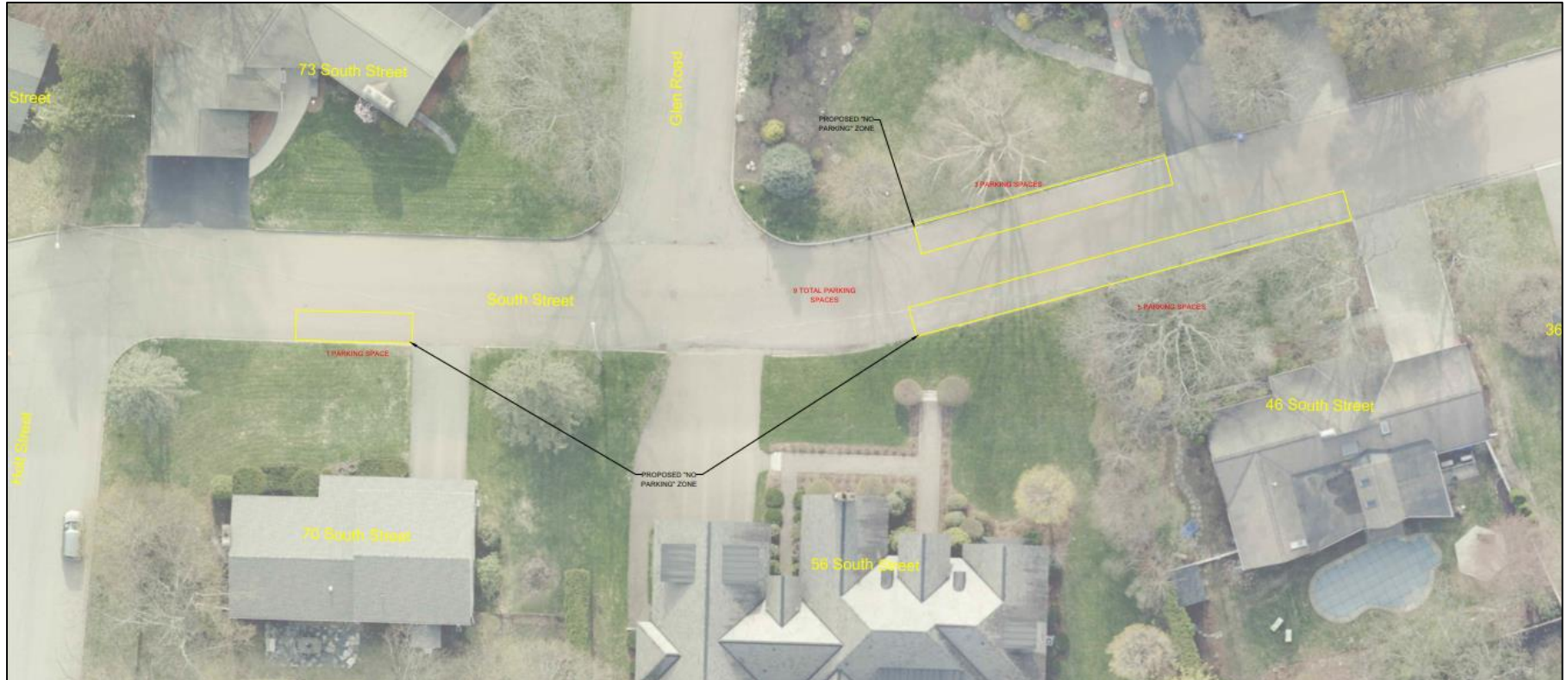


# FAIRMOUNT STREET





# SOUTH STREET



# PROJECT SCHEDULE

## Completed Tasks:

- BOF/CC Grant Acceptance – June 24, 2019
- FPF to neighborhood on soil sampling – July 31, 2019
- Ward 6 NPA Presentation – March 5, 2020
- Initial letter to residents – March 13, 2020
- Resident Meeting – March 31, 2020 (CANCELLED)
- Email & Front Porch Forum updates – April 2020
- 2<sup>nd</sup> Resident Letter – July 1, 2020
- Mark out systems in chalk – July 9, 2020



## Upcoming Tasks:

- Neighborhood Meetings – July 13-14, 2020
- Plan revisions based on feedback – July 15 – August 15
- Resident review of final plan set – late August 2020
- DPW Commission – October 2020
- Request for Bids – December 2020 / January 2021
- BOF/CC contract award – February / March 2021
- Construction – Spring / Summer 2021



# DISCUSSION